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What is claimed is:

1. An electromagnetic valve comprising:

an iron core;

a coil defining a longitudinal axis and being tightly connected to said iron core;

an armature plate movably mounted for movement relative to said iron core in the direction of said longitudinal axis;

said armature plate having a side facing toward said coil and having a peripheral region on said side;

a first flow channel opening at said peripheral region;

a second flow channel opening at said armature plate; and,

said armature plate being movable between a first position whereat said first and second channels communicate with each other and, when there is a current flow in said coil, a second position whereat said first and second flow channels are

- 15 fluidly separated from each other.
 - 2. The electromagnetic valve of claim 1, wherein said second flow channel opens at a side of said armature plate facing away from said coil.
 - 3. The electromagnetic valve of claim 1, wherein said first flow channel is closed by said armature plate when in said second position.
 - 4. The electromagnetic valve of claim 2, further comprising an annular gap formed at the periphery of said armature plate; and, said first and second flow channels communicating with each other via said annular gap.

NOV-16-2004 12:19

- The electromagnetic valve of claim 4, wherein said valve further comprises a housing common to said coil and said iron core and said coil and said iron core are injection molded in said housing.
- The electromagnetic valve of claim 5, wherein said housing defines a contact surface for said armature plate in the region of the opening of said first channel; and, said iron core is set back from said contact surface.
- The electromagnetic valve of claim 5, wherein said valve further comprises a yoke.
- The electromagnetic valve of claim 7, wherein said yoke is formed as one piece with said iron core.
- The electromagnetic valve of claim 7, wherein said first flow channel is formed in said housing and said yoke has a cutout formed in the region of said opening of said first flow channel.
- 10. The electromagnetic valve of claim 5, wherein said housing has an annular channel at the periphery thereof; and, said valve comprises a plurality of said first channels fluidly connected to each other via said annular channel.
- The electromagnetic valve of claim 10, wherein said first channels are symmetrically arranged about said longitudinal axis.

NOV-16-2004 12:19

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- 12. The electromagnetic valve of claim 1, further comprising a spring for resiliently biasing said armature plate into said first position away from said coil.
- 13. The electromagnetic valve of claim 12, wherein said armature plate is guided by said spring.
- 14. The electromagnetic valve of claim 13, further comprising stop means for delimiting the axial movement of said armature plate.
- 15. The electromagnetic valve of claim 14, further comprising a housing common to said coil and said iron core and said coil and said iron core being mounted in said housing; and, a cover enclosing said armature plate and said stop means being formed on said cover.